ELSEVIER

Contents of Volume 49, 464–465

Journal of Materials Processing Technology

Contents Volume 49

Vol. 49 No. 1–2, 1 February 1995

Experimental simulation of metal flow in porthole-die extrusion 1
J.X. Xie, T. Murakami, K. Ikeda, H. Takahashi (Japan)
On strength, stiffness and dent resistance of car body panels 13
N. Asnafi (Stockholm, Sweden)
Numerical analysis of the influence of the strain-hardening parameter and of an initial imperfection on the formation of shear bands under plane-strain tension 33
P. Hu, Y. Liu, S. Chen, J. Lian, Y. Li (People's Republic of China)
A parametric study of the Hazelett thin-slab casting process 41
A.G. Gerber, A.C.M. Sousa (Canada)
Application of the finite-element method to the radial forging of large diameter tubes 57
J.P. Domblesky, R. Shivpuri, B. Painter (OH, USA)
Optimal lower-bound solutions of plane-strain metal indentation and extrusion problems 75
D.N. Singh, P.K. Basudhar (Kanpur, India)
Non-destructive in-situ replication metallography 85
S. Jana (Singapore)
Methane plasma source ion implantation (PSII) for improvement of tribological and corrosion properties 115
J. Chen, J.R. Conrad, R.A. Dodd (WI, USA)
Three-dimensional heat-transfer and thermal-expansion analysis of the work roll during rolling . 125
Z.-C. Lin, C.-C. Chen (Taiwan, ROC)
A study of cutting with a CBN tool 149
Z.-C. Lin, D.-Y. Chen (Taiwan, ROC)
A PC-based system for automatic analysis of material flow and strains using digital image-procesing 165
J. Hou, U. Ståhlberg (Stockholm, Sweden)
The cutting performance of a coated drill with curved primary cutting edges 183
W.-C. Chen, K.-H. Fuh (Taiwan, ROC)
Wrinkling behaviour of cold-rolled sheet metals when drawing through a tractrix die 199
R. Narayanasamy, (Tamil Nadu, India) R. Sowerby (Ontario, Canada)
Weldability studies of high-strength low-alloy steel using austenitic fillers 213
G. Madhusudhan Reddy, T, Mohandas (Hyderabad, India) G.R.N. Tagore (Warangal, India)

Vol. 49. No. 3–4, 15 February 1995

An analysis of the square-cup stretching process 229
Y.-M. Huang, C.-H. Liu (Taiwan, ROC)
On-line tool wear sensing and compensation in turning 247
S.K. Choudhury, S. Ramesh (Kanpur, India)

Elsevier Science S.A.

ELSEVIER

Contents of Volume 49, 464–465

Journal of Materials Processing Technology

Contents Volume 49

Vol. 49 No. 1–2, 1 February 1995

Experimental simulation of metal flow in porthole-die extrusion 1
J.X. Xie, T. Murakami, K. Ikeda, H. Takahashi (Japan)
On strength, stiffness and dent resistance of car body panels 13
N. Asnafi (Stockholm, Sweden)
Numerical analysis of the influence of the strain-hardening parameter and of an initial imperfection on the formation of shear bands under plane-strain tension 33
P. Hu, Y. Liu, S. Chen, J. Lian, Y. Li (People's Republic of China)
A parametric study of the Hazelett thin-slab casting process 41
A.G. Gerber, A.C.M. Sousa (Canada)
Application of the finite-element method to the radial forging of large diameter tubes 57
J.P. Domblesky, R. Shivpuri, B. Painter (OH, USA)
Optimal lower-bound solutions of plane-strain metal indentation and extrusion problems 75
D.N. Singh, P.K. Basudhar (Kanpur, India)
Non-destructive in-situ replication metallography 85
S. Jana (Singapore)
Methane plasma source ion implantation (PSII) for improvement of tribological and corrosion properties 115
J. Chen, J.R. Conrad, R.A. Dodd (WI, USA)
Three-dimensional heat-transfer and thermal-expansion analysis of the work roll during rolling . 125
Z.-C. Lin, C.-C. Chen (Taiwan, ROC)
A study of cutting with a CBN tool 149
Z.-C. Lin, D.-Y. Chen (Taiwan, ROC)
A PC-based system for automatic analysis of material flow and strains using digital image-procesing 165
J. Hou, U. Ståhlberg (Stockholm, Sweden)
The cutting performance of a coated drill with curved primary cutting edges 183
W.-C. Chen, K.-H. Fuh (Taiwan, ROC)
Wrinkling behaviour of cold-rolled sheet metals when drawing through a tractrix die 199
R. Narayanasamy, (Tamil Nadu, India) R. Sowerby (Ontario, Canada)
Weldability studies of high-strength low-alloy steel using austenitic fillers 213
G. Madhusudhan Reddy, T, Mohandas (Hyderabad, India) G.R.N. Tagore (Warangal, India)

Vol. 49. No. 3–4, 15 February 1995

An analysis of the square-cup stretching process 229
Y.-M. Huang, C.-H. Liu (Taiwan, ROC)
On-line tool wear sensing and compensation in turning 247
S.K. Choudhury, S. Ramesh (Kanpur, India)

Elsevier Science S.A.

Tool-wear prediction using artificial neural networks 255
E.O. Ezugwu, S.J. Arthur, E.L. Hines (Coventry, UK)
A study on the determination of the blow energy of hammers by the steel-column upsetting method 265
C. Weimin, C. Bangshun, Z.R. Wang (Harbin, China)
Derivation and application of a dynamic fatigue life equation 279
H.-K. Oh, W.-G. Yoon (Soowon, South Korea)
Development of the technique of extrusion directly following infiltration for the manufacturing of metal-matrix composites 287
H. Lianxi, L. Shoujing, H. Wencan, Z.R. Wang (Harbin, People's Republic of China)
Failure modes and wear mechanisms of M35 high-speed steel drills when machining inconel 901 295
E.O. Ezugwu, C.J. Lai (London, UK)
Analysis of the factors influencing the geometrical shape of workpieces produced by ironing ... 313
Z. Kampuš, K. Kuzman (Ljubljana, Slovenia)
Experimental investigation and numerical simulation of SMC in compression molding 333
D.-K. Kim, H.-Y. Choi, N. Kim (Seoul, South Korea)
Non-conventional extrusion of less-common materials 345
M. Kammerer, K. Pöhlandt, (Stuttgart, Germany) A.E. Tekkaya (Ankara, Turkey)
Experimental verification of superplastic sheet-metal forming analysis by the finite-element method 355
H. Huh, S.S. Han, J.S. Lee, S.S. Hong (Taejon, South Korea)
UBA analysis of the process of pipe extrusion through a porthole die 371
J.X. Xie, K. Ikeda, T. Murakami (Sendai, Japan)
Theoretical analysis of micro-cutting characteristics in ultra-precision machining 387
J.-D. Kim, D.S. Kim (Taejon, South Korea)
Analytical and finite-element analysis of in situ solidified specimen upsetting 399
J.D. Guérin, J. Oudin, J.P. Bricout (Valenciennes Cedex, France)
The effect of plastic flow on the strengthening and toughening of alloy during liquid-metal forming under pressure 425
S.J. Luo, L.X. Hu, H.J. Li (Harbin, People's Republic of China)
Friction welding of St–Al and Al–Cu materials 431
B.S. Yilbas, A.Z. Şahin, A.Z. Al-Garni, (Dhahran, Saudi Arabia) N. Kahraman (Kayseri, Turkey)
Transformation and evaluation of grinding parameters for CAM/CIM applications 445
C.B. Zhu (Singapore) P.S. Midha, G.J. Trmal (Bristol, UK)

Letter to the Editors 457
Conference calendar 461
Call for papers 462
Author Index of Volume 49 463
Contents Volume 49 464